§ 175.270

each extracting solvent not to exceed 0.3 micrograms per square inch of food-contact surface. In testing the finished food-contact articles, a separate test sample is to be used for each required extracting solvent.

§175.270 Poly(vinyl fluoride) resins.

Poly(vinyl fluoride) resins identified in this section may be safely used as components of food-contact coatings for containers having a capacity of not less than 5 gallons, subject to the provisions of this section.

(a) For the purpose of this section, poly(vinyl fluoride) resins consist of basic resins produced by the polym-

erization of vinyl fluoride.

- (b) The poly(vinyl fluoride) basic resins have an intrinsic viscosity of not less than 0.75 deciliter per gram as determined by ASTM method D1243-79, "Standard Test Method for Dilute Solution Viscosity of Vinyl Chloride Polymers," which is incorporated by reference. Copies may be obtained from the American Society for Testing Materials, 1916 Race St., Philadelphia, PA 19103, or may be examined at the National Archives and Records Administration (NARA). For information on the availability of this material at NARA, call 202-741-6030, or go to: http:// www.archives.gov/federal_register/ code of federal regulations/ ibr_locations.html.
- $\overline{(1)}$ Solvent. N,N-Dimethylacetamide, technical grade.
- (2) Solution. Powdered resin and solvent are heated at 120 °C until the resin is dissolved.
- (3) Temperature. Flow times of the solvent and solution are determined at 110 $^{\circ}\text{C}.$
- (4) *Viscometer*. Cannon-Ubbelohde size 50 semimicro dilution viscometer (or equivalent).
- (5) Calculation. The calculation method used is that described in appendix X 1.3 (ASTM method D1243-79, "Standard Test Method for Dilute Solution Viscosity of Vinyl Chloride Polymers," which is incorporated by reference; see paragraph (b) of this section for availability of the incorporation by reference) with the reduced viscosity determined for three concentration levels not greater than 0.5 gram per deciliter and extrapolated to zero concentration

for intrinsic viscosity. The following formula is used for determining reduced viscosity:

Reduced viscosity in terms of deciliters per gram = $\frac{t - to}{to \times c}$

where:

t=Solution efflux time.

to=Solvent efflux time.

c=Concentration of solution in terms of grams per deciliter.

[42 FR 14534, Mar. 15, 1977, as amended at 47 FR 11839, Mar. 19, 1982; 49 FR 10107, Mar. 19, 1984]

§ 175.300 Resinous and polymeric coatings.

Resinous and polymeric coatings may be safely used as the food-contact surface of articles intended for use in producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food, in accordance with the following prescribed conditions:

- (a) The coating is applied as a continuous film or enamel over a metal substrate, or the coating is intended for repeated food-contact use and is applied to any suitable substrate as a continuous film or enamel that serves as a functional barrier between the food and the substrate. The coating is characterized by one or more of the following descriptions:
 - (1) Coatings cured by oxidation.
- (2) Coatings cured by polymerization, condensation, and/or cross-linking without oxidation.
- (3) Coatings prepared from prepolymerized substances.
- (b) The coatings are formulated from optional substances that may include:
- (1) Substances generally recognized as safe in food.
- (2) Substances the use of which is permitted by regulations in this part or which are permitted by prior sanction or approval and employed under the specific conditions, if any, of the prior sanction or approval.
- (3) Any substance employed in the production of resinous and polymeric coatings that is the subject of a regulation in subchapter B of this chapter and conforms with any specification in such regulation. Substances named in this paragraph (b)(3) and further identified as required: